

Raw Sequence Listing Error Summary

ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER: 09/830,706

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics The number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".
- 2 Wrapped Aminos The amino acid number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".
- 3 Incorrect Line Length The rules require that a line not exceed 72 characters in length. This includes spaces.
- 4 Misaligned Amino Acid The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs
Numbering between the numbering. It is recommended to delete any tabs and use spacing between the numbers.
- 5 Non-ASCII This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.
- 6 Variable Length Sequence(s) contain n's or Xaa's which represented more than one residue.
As per the rules, each n or Xaa can only represent a single residue.
Please present the maximum number of each residue having variable length and
indicate in the (ix) feature section that some may be missing.
- 7 PatentIn ver. 2.0 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid
sequence(s) . Normally, PatentIn would automatically generate this section from the
previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section
to the subsequent amino acid sequence. This applies primarily to the mandatory <220>-<223>
sections for Artificial or Unknown sequences.
- 8 Skipped Sequences Sequence(s) missing. If intentional, please use the following format for each skipped sequence:
(OLD RULES) (2) INFORMATION FOR SEQ ID NO:X:
 (i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")
 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:
 This sequence is intentionally skipped

Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).
- 9 Skipped Sequences Sequence(s) missing. If intentional, please use the following format for each skipped sequence.
(NEW RULES) <210> sequence id number
 <400> sequence id number
 000
- 10 Use of n's or Xaa's Use of n's and/or Xaa's have been detected in the Sequence Listing.
(NEW RULES) Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
 In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 11 Use of "Artificial" Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules.
(NEW RULES) Valid response is Artificial Sequence.
- 12 Use of <220>Feature Sequence(s) are missing the <220>Feature and associated headings.
(NEW RULES) Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial Sequence" or "Unknown"
 Please explain source of genetic material in <220> to <223> section.
 (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)
- 13 PatentIn ver. 2.0 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted
file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).
Instead, please use "File Manager" or any other means to copy file to floppy disk.

PCT

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/830,706

DATE: 05/18/2001
TIME: 10:56:57

Input Set : A:\M3-007PCT_SEQ.txt
Output Set: N:\CRF3\05182001\I830706.raw

Does Not Comply
Corrected Diskette Needed

pp1-2/13

OK

4 <110> APPLICANT: Medical & Biological Laboratories Co., Ltd.
7 <120> TITLE OF INVENTION: Thioredoxin reductase II
10 <130> FILE REFERENCE: M3-007PCT
12 <140> CURRENT APPLICATION NUMBER: US/09/830,706
13 <141> CURRENT FILING DATE: 2001-04-27
15 <150> PRIOR APPLICATION NUMBER: JP 1998-310422
16 <151> PRIOR FILING DATE: 1998-10-30
18 <160> NUMBER OF SEQ ID NOS: 37
20 <170> SOFTWARE: PatentIn Ver. 2.0

ERRORED SEQUENCES

451 <210> SEQ ID NO: 4
452 <211> LENGTH: 492
453 <212> TYPE: PRT
454 <213> ORGANISM: Homo sapiens
455 <223> OTHER INFORMATION: Xaa(493) means selenosysteine.
457 <400> SEQUENCE: 4
458 Met Glu Asp Gln Ala Gly Gln Arg Asp Tyr Asp Leu Leu Val Val Gly
459 1 5 10 15
461 Gly Gly Ser Gly Gly Leu Ala Cys Ala Lys Glu Ala Ala Gln Leu Gly
462 20 25 30
464 Arg Lys Val Ala Val Val Asp Tyr Val Glu Pro Ser Pro Gln Gly Thr
465 35 40 45
467 Arg Trp Gly Leu Gly Gly Thr Cys Val Asn Val Gly Cys Ile Pro Lys
468 50 55 60
470 Lys Leu Met His Gln Ala Ala Leu Leu Gly Gly Leu Ile Gln Asp Ala
471 65 70 75 80
473 Pro Asn Tyr Gly Trp Glu Val Ala Gln Pro Val Pro His Asp Trp Arg
474 85 90 95
476 Lys Met Ala Glu Ala Val Gln Asn His Val Lys Ser Leu Asn Trp Gly
477 100 105 110
479 His Arg Val Gln Leu Gln Asp Arg Lys Val Lys Tyr Phe Asn Ile Lys
480 115 120 125
482 Ala Ser Phe Val Asp Glu His Thr Val Cys Gly Val Ala Lys Gly Gly
483 130 135 140
485 Lys Glu Ile Leu Leu Ser Ala Asp His Ile Ile Ile Ala Thr Gly Gly
486 145 150 155 160
488 Arg Pro Arg Tyr Pro Thr His Ile Glu Gly Ala Leu Glu Tyr Gly Ile
489 165 170 175
491 Thr Ser Asp Asp Ile Phe Trp Leu Lys Glu Ser Pro Gly Lys Thr Leu
492 180 185 190
494 Val Val Gly Ala Ser Tyr Val Ala Leu Glu Cys Ala Gly Phe Leu Thr
495 195 200 205
497 Gly Ile Gly Leu Asp Thr Thr Ile Met Met Arg Ser Ile Pro Leu Arg
498 210 215 220

*insert this mandatory
numeric
identifier
wherever <221>
<222>, or <223>
is shown*

*(Please correct
all sequences
showing this
err.)*

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 501 225 230 235 240
 503 His Gly Thr Arg Phe Leu Arg Gly Cys Ala Pro Ser Arg Val Arg Arg
 504 245 250 255
 506 Leu Pro Asp Gly Gln Leu Gln Val Thr Trp Glu Asp Ser Thr Thr Gly
 507 260 265 270
 509 Lys Glu Asp Thr Gly Thr Phe Asp Thr Val Leu Trp Ala Ile Gly Arg
 510 275 280 285
 512 Val Pro Asp Thr Arg Ser Leu Asn Leu Glu Lys Ala Gly Val Asp Thr
 513 290 295 300
 515 Ser Pro Asp Thr Gln Lys Ile Leu Val Asp Ser Arg Glu Ala Thr Ser
 516 305 310 315 320
 518 Val Pro His Ile Tyr Ala Ile Gly Asp Val Val Glu Gly Arg Pro Glu
 519 325 330 335
 521 Leu Thr Pro Thr Ala Ile Met Ala Gly Arg Leu Leu Val Gln Arg Leu
 522 340 345 350
 524 Phe Gly Gly Ser Ser Asp Leu Met Asp Tyr Asp Asn Val Pro Thr Thr
 525 355 360 365
 527 Val Phe Thr Pro Leu Glu Tyr Gly Cys Val Gly Leu Ser Glu Glu Glu
 528 370 375 380
 530 Ala Val Ala Arg His Gly Gln Glu His Val Glu Val Tyr His Ala His
 531 385 390 395 400
 533 Tyr Lys Pro Leu Glu Phe Thr Val Ala Gly Arg Asp Ala Ser Gln Cys
 534 405 410 415
 536 Tyr Val Lys Met Val Cys Leu Arg Glu Pro Pro Gln Leu Val Leu Gly
 537 420 425 430
 539 Leu His Phe Leu Gly Pro Asn Ala Gly Glu Val Thr Gln Gly Phe Ala
 540 435 440 445
 542 Leu Gly Ile Lys Cys Gly Ala Ser Tyr Ala Gln Val Met Arg Thr Val
 543 450 455 460
 545 Gly Ile His Pro Thr Cys Ser Glu Glu Val Val Lys Leu Arg Ile Ser
 546 465 470 475 480
 548 Lys Arg Ser Gly Leu Asp Pro Thr Val Thr Gly Cys Xaa Gly
 549 485 490

934 <210> SEQ ID NO: 37

935 <211> LENGTH: 66566

936 <212> TYPE: DNA

937 <213> ORGANISM: Homo sapiens

939 <400> SEQUENCE: 37

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 942 gccgtggcgg gcgggggtgcg gggcgcgggc cggggcgag caggtaggat ggggtcgggg 120
 944 cgtccccgcg gtaggtgtcc gcgcggccgg ggtgtcctcg tgagggtgtc cgcgcggcgg 180
 946 tggccagggt gtccccgtgg ggtgcccac gcgggggtgt ccacataccg gcctcttggt 240
 948 ctagtcttgc tcaggagtcc gggtgtcttc tagccacaag tagccccctt cccagggtggg 300
 950 gaaactgggg ctgggtgcct tgtctaaggt cctgctgtgc tgactgcacc tgtgtctcc 360
 952 cagagctggt atcccagtaa caactacagt tctgaagatg atgatatccc acctcccgag 420
 954 gtcaccaggc accggcccca ctggccagac ttcccactt cccccagac ccctagactc 480
 956 tagaggtag aggtgcaca gagcaatggg aggatacaca ctgctctcc tggagcccct 540
 958 gaagaacagt taactaaatc aggaataa tcataactga gcactcgaag cagaggctgg 600

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962	accagagcgc	caccatatct	gttatgtgtg	gccagtttca	ttccatgcac	gacaacatgg	720
964	tccccaccac	tgcagggggc	ccctcgaccc	agccccctgg	atgcttgtga	cagcgagcag	780
966	ctctccccac	aggcagttag	tgtagagggg	tgtaaaggacg	gggtcagggc	tccttcccag	840
968	ggatggcggc	tatgggaggc	atgggtggctg	gccctctgcc	cgcggtggac	tcgggaggga	900
970	gggctgactg	tgtgtgtgaa	tgggcagagt	tgggtctatg	gaggtttttg	gggtctccag	960
972	gacggagggt	ggcccaacag	agttctggga	ggcagtcacc	acctcgtggc	cttgctgaga	1020
974	cctggaaccc	tcagccaggg	cactccatct	ttcaaagctt	cttggtcgca	tgcgtcaggt	1080
976	gggcaagctc	aggaagggtta	aatgcacccg	tgctggcgga	gtcccataaa	aggggattcg	1140
978	gcatcaaaaag	gaggaaaaag	gttcaaaggg	catttatcat	ggggttcaga	atcacggatg	1200
980	tgaggggcgg	tagtggggag	aacagacaga	aaagcttccc	cttcccatac	tcacagtcca	1260
982	gacacggcaa	tagccaaatt	ccaaatttct	aggtattctg	gactcagaat	ggggaatatc	1320
984	atacgagact	tagggggata	atgcccttat	cttcctattt	taagggaaag	aacaaactga	1380
986	accttctatg	caaaatagga	tgatgatcct	ggtcctocca	gtaagaaata	aaataagtag	1440
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990	agtctgttac	taaaccatat	gagttgtttt	tttgggggtt	tttttttttt	tttttttttg	1560
992	agacagtgtc	ttgctctgtc	gcccaagctg	gagtacagtg	gtgcgatctc	agctcactgc	1620
994	aagctccgcc	tcccgggttc	acgccattct	cctgcctcag	cctcccagtg	agctgggact	1680
996	acaggcatct	gccaccacgc	ctggctaatt	ttttttgtat	tttttagtaga	gacgggattt	1740
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1000	ccaaagtgtc	gggattacag	gcatgagcca	ctgcgcccag	ccgagtcatt	ttttaatact	1860
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1004	tttaggatat	ggttttccta	caggtttata	ttgaaagtat	ggggtatctc	ctattactcc	1980
1006	tctttttatt	tgtctttaaag	gagaaagggg	gaggccagag	accaaattgc	cccatttccc	2040
1008	tatagctaat	ctctctggaa	gacaagcagc	ccagacttga	gcttctagat	ggatacaacc	2100
1010	aggtgcatgt	ccaaggcaca	gaggagggtta	tttataaccc	atagtaacat	taaatgcagt	2160
1012	gccttctcct	ggctgagcgg	tgcaacggtc	atctgtagtt	ccaggcatcc	acacactatc	2220
1014	gttagtatag	atttctgcag	gagcatccat	ccagggtgaga	ggtcgaataa	gtggaggaaa	2280
1016	aggcacataa	gcccataaag	aataattttg	tgtagcaggt	aaatcagttt	aaggggaaac	2340
1018	tgttgagaca	gaaagtgtaa	ggaagataat	tattaaataa	aacctattgt	aagtgagatc	2400
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1046	gccagtgcga	gcgaagataa	atgtgctctg	tggaacttct	tcagcttttc	taacaccttc	3240
1048	tagtttcatg	ttagtgggat	gtttaagcca	ggaggaaggc	cataaattag	aggaaataat	3300
1050	agaaacatca	gccccagtat	caactaggcc	ctcaaccttt	tttccttgaa	tgtgtatggg	3360
1052	gcaggtaggc	cattgtttag	aaattacatt	aatccaataa	gcggcttttt	caccgctgga	3420
1054	gccccatcca	gggccccatg	tcttatctcc	tttgttttaa	acaatgttag	gtagtaaaaag	3480
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1064	ggaatggtac	tacagagatc	gaccgccctg	ctgcctactg	tggaggtaga	caagcattgt	3780
1066	actgagacag	aagaagaggc	tgggacccat	ctggattggc	tgtaggtaaa	tttttttgtg	3840
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1070	tcccatttga	tattggggcc	tgggactggc	cttgcttctt	gtttccctgg	ttctgtggca	3960
1072	agggattttc	atctatatca	gactgagtg	caagtacttg	cccaatgttt	acccttacga	4020
1074	caacgcaggc	aaacagtagc	aggagcattt	ggccgtggtt	gttgagccgg	cttggccgct	4080
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1080	agaatagctc	tgtgggtctc	cgatccaacg	ccttcacaag	ctttaatata	tgcaggcaac	4260
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1096	tgagatggag	ttagaacagc	ttttgccaaa	aggtcgcagt	ctataggaag	caaaatgacc	4740
1098	tcggtacaaa	gagtctgtaa	tacgttttaa	catatggaga	agtaggaaca	tactgagtac	4800
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1102	cccttgagc	attagagggt	tccagcatga	ccgaataagc	ccacgcctct	aactctactg	4920
1104	tttggttttg	cgtaataagc	attgcatgaa	agtttcaaga	gcaggcacat	gagatagagt	4980
1106	cgcatagaa	gtgacaggaa	aagtatgtat	agataagaga	aactgagatt	gacggggctg	5040
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1112	gtacagagaa	gcaggttgag	tggatggcaa	agtgaccggt	tgaggggacca	aaatgatagg	5220
1114	aggggtgagg	gctgtggtgg	atgggggagg	gcctgcagaa	ttacaggtaa	attgtagttt	5280
1116	ggatggctcc	ggaggcaaa	actgtaaaag	tttgagagag	gaagagttag	catagatatg	5340
1118	gtcctgggct	gtctgagttg	gggcccaggg	agctacaagt	gtcggctctt	cgtgaaaaga	5400
1120	aataagatca	tcagggggtg	atgttaagcc	aaagtcaact	gagttagata	ttgaatcctc	5460
1122	agtatcgtca	ggtgggggag	gagtaggcaa	agggaggggc	tgagcagata	atgaaggccg	5520
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1146	cacctgagcc	gcaaaaccag	caagttttta	ttaaggattt	taaaagggga	ggggttgtgc	6240
1148	caataggag	taggtcacia	agatcacatg	cttcaaagg	caaaaggcag	agcaaagatc	6300
1150	acatgcttct	gaggaaacag	gacaagggca	aaatcagaac	tcctgataag	ggtctatggt	6360
1152	cagctgtgca	catattgtct	tgataaacat	cttaaacaca	ggaaaacatg	gtttaagagc	6420
1154	agagaaccag	tctgaccaca	aatttaccag	gacggagttt	tttccccacc	ctaataagcc	6480

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1160	taatagtaat	attccttgct	aggaaaaaga	tttagcgata	tctctcctac	ttgcacgtcc	6660
1162	atttataagc	tctctgcaag	aagaaaaata	tggctctttt	tgctgaccc	cacaggcagt	6720
1164	cagaccttat	ggttggtctt	gttccctaaa	aatcactggt	attctgttct	ttttcaaggt	6780
1166	gcgctgattt	catattgttc	aaacacacgt	tttacaatca	atttctacag	ttaacacaa	6840
1168	tatcacagt	gtcctgaggt	gatgtatatt	atcagcttat	gaagataaca	ggattaagag	6900
1170	ataaagacag	gcataagaaa	ttataaaagt	attacttggg	ggcccaggcg	cggtggctca	6960
1172	tgctgtaatt	cctagcactt	tgagaggccg	aggcagccat	atcacaaggt	gaggagatca	7020
1174	agaccatcct	ggctaacatg	gtgaaacctt	gtctctcctg	aaagtacaaa	aaattagcca	7080
1176	gggtgggtg	cggtgacctg	tagtcccagc	tactcaggag	gctgagacag	gagaatgggtg	7140
1178	tgaaccagg	aggcggagct	tgcagtgcgc	tgagattgtg	ccactgcacc	ccagcctggg	7200
1180	cgacagagag	agaatctgcc	tcaaaaaaaa	aaaaaagaaa	aaagtataaa	agtattactt	7260
1182	gggaattgat	aaatgttcat	attgaaatga	aatcttcact	atttatgttc	ctctgccacg	7320
1184	gctccagcca	gtccctccat	tcgggggttc	tgacttcctg	caacacaggt	gtgagccact	7380
1186	gtacccagac	taggggtgca	gttttttttt	tttttttttt	ctgagacaga	gtctcactct	7440
1188	gttaaccagg	ctggagtgcg	gtggtgctat	catagctcac	tgacgccttg	aactcctggg	7500
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1650	tcaaacgat	t	ctcttgcc	tc	agcctccc	gg	gtagctgg	gg	ctacaggc	tt	21360
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1934	tctcctctgg	ctggccttgt	aggccacccc	tgcgcgcag	acacacctga	gctctgctgg	29880
1936	cctgattttg	ctgacctgtt	ctctccccac	ttcctctctc	tgagtttggg	tccccagaa	29940
1938	cccagggtgt	gctccctggg	gctgcattgc	cctgtctgtt	tgatgtgtct	gtccagaacc	30000

RAW SEQUENCE LISTING

DATE: 05/18/2001

PATENT APPLICATION: US/09/830,706

TIME: 10:56:58

Input Set : A:\M3-007PCT_SEQ.txt

Output Set: N:\CRF3\05182001\I830706.raw

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 1944 gaaaggttac cctgcgaggg caccgggacc tggagtgcag cagcttagat gcagacaggc 30180
 1946 cacctgcagc cccaaagagg ccacagcctg cagacaagga ctggcagcag ggaagccctg 30240
 1948 tgcagtgtgt ccctgggaaa gctctgcttg attctgcaaa gctggcatcc tctttaagga 30300
 1950 agccctagga caggccaaat ggagctcttg tccaaggggt catttctgtc ttgacagatc 30360
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 1956 actggaccct tagagcctgt gctggtgctg ggctcctggg gctttctttc cggtttacct 30540
 1958 aaaagaagga aaaaagcctt gttattgtg gctgaggtgt gtggctcatg cttgttagcc 30600
 1960 tagcactttg ggagactgag cgggaggatt gcttgaggcc aggagttcga gatcagcatc 30660
 1962 agcctgggca atatagttag acctctactc tacaaaaatc tgttttggtt ttttttttgg 30720
 1964 cttttttttt laggtggagt ctactctgtg cggccagact ggagtgcatt ggcccaatct 30780
 1966 tggctcactg caatccctgc ctcccagggt caagtgatcc tctgtcttca gcctccaaag 30840
 1968 tagctgaaat tacaggcgcc caccaccaca tctggctaatt ttttgtattt ttagtagaaa 30900
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 1972 cctgcgtctc ctaaagtgtc gggattacaa gcttgagcca ccacaccag cctacaaaaa 31020
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 1976 ttaggtggga ggattgcttg agcccaggag gttgaggctg cagtgcagctg tgattgcacc 31140
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 1984 aatggggttc ccaggagccc tggggttcca gtgggtcccc tcaaggacat cagggaagac 31380
 E--> 1986 attagggagg ggagagccag caatccctat cccaggtctc atctaaccac ctcactgtct 31440
 1988 tctgatttgt acattgggtt tccctgaaat ctacaaaga ctccaaaggc ctcagaaaca 31500
 1990 acatcttgat tgtggaagg aggctagcag cgtgcaagt gctctcactc cccatgggag 31560
 1992 cagggtgcaga gtcactaagt gcattccgat gccacagag tgggccatcc cgaggtccca 31620
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 2002 ggtgtgtgag tgggtgtgt gtgtgaaggg tgtgggtgtg tgggtgtgt gtgtgtgagt 31920
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 2006 tgggtgtgtg gtgagtgtgt tgtgtgagt gtgtgtgtgt ggtgtgtgt gtgtgtgtgt 32040
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 2012 tatgtgagt gtgtgtgagt ggtgtgtgt gtgtgtgtgt gtgagtgtgt tgtgtgtgtgt 32220
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 2020 tagttccttt gacctttctc ttgttaatga gcatctcagt agtttctctt cttcatcatt 32460
 2022 atcaatgctg cagtgaacac cttggagggt catctgttta ccatcagaag tgcttctgac 32520
 2024 acattttccc aattattcat tgtgataaaa cagacatagt ataaaaat ttaac 32580
 2026 cttttttttt tttttttttg aaacagagtc tcaactctgt gccaggtcgt gagtgcagtg 32640
 2028 gtgcgacttc ggctcactgc aacctctgcc tcccgggttc aagcgattct cctgtctcag 32700
 2030 cctctgagt agccgggact acaggtgtct gccaccacac cccgctaatt tttgtgttt 32760
 2032 ttagtgagga tggggtttca ccatgttggt caggctgtgc tcaaacctct gacctcaggt 32820
 2034 gatccacctg ccttggcctt ccaaagtgtc gggattacag gggtagacca ccacgccag 32880
 2036 cccacgttaa ccatttttta gtatacagtt caatggtatt aaatgtatta ataattgtct 32940

see item 10
 on Encl
 Summary Sheet

Please Note:

Use of n and/ r Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a c rresponding explanation is pres nted in the <220> to <223> fields f each sequence which presents at least one n or Xaa.

RAW SEQUENCE LISTING

DATE: 05/18/2001

PATENT APPLICATION: US/09/830,706

TIME: 10:56:58

Input Set : A:\M3-007PCT_SEQ.txt

Output Set: N:\CRF3\05182001\I830706.raw

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2042	catctgtcag	tggacaccca	agttgcctct	gcttcttggc	tgttgtgagc	agtgtgtccg	33120
2044	tgaacatagg	tgtgcaata	cctcttgaag	acctttcagt	tcttttggat	gcaaaccag	33180
2046	aagtgggatt	gctggatctt	atggctctga	ggaacctcca	tcctgttccc	aacagcgccc	33240
2048	acaccatctt	acattctcac	cagcagttca	ggaggactct	gggctcccca	catcctcgcc	33300
2050	agtgcattgt	gttttctgtt	tttctttctt	taatttttat	tttttctttt	aaactgtttt	33360
2052	cttgatgttt	tctgtttttt	tgacagtggc	catcctagt	gctgtgaggt	ggtcttatac	33420
2054	gctttacaag	gggagctgcc	cttccgtctt	aacactttgt	gctgacaggc	caattccatg	33480
2056	tgtactctgc	gtccttccct	gtccttggtt	actcaggcat	cagctttttg	ataagacaca	33540
2058	aaacagaaag	gagcctctcc	ccccataccc	ctggcctggg	cagtgggtcac	tgctacccat	33600
2060	ggcgccacac	ctctcctgag	agcagtcact	gctacccacg	gcgcccacac	tctcctgaga	33660
2062	gcggtcactg	ctacccacgg	tgacccacac	ctctcctgag	agcagtcact	gctacccacg	33720
2064	gcgcccacac	tctcctgaga	gcggtcactg	ctacccacgg	cgcccacact	ctcctgagaa	33780
2066	cggtcactgc	tccccacggc	gcccacactc	tcttgagagc	tgctcactgt	acccacggcg	33840
2068	cccacactct	cctgagagct	gtcactgcta	cccatgggtg	gcccacactc	tcttgagagc	33900
2070	gctactgctt	acccacggcg	cccacactct	ctgagagcgg	gtcactgcta	cccatggcg	33960
2072	ccacactctc	ctgagagcgg	tactgtctac	ccacgggtgc	cacactctcc	tgagagcggg	34020
2074	cactgtctacc	caaggcgccc	acactctcct	gagagcggtc	gctgtctacc	atgggtgcgc	34080
2076	caactctctc	tgagagcggg	cactgtctacc	caaggcgccc	acactctcct	gagagcggtc	34140
2078	actgtctactc	atgggtgcgc	cacactctcc	tgagagcggg	cactgtctatc	caaggcgccc	34200
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2084	ctctcctgag	agcgggtcact	gctacccacg	gtgcacccac	actctcctga	gagcgggtcac	34380
2086	tgctacccac	ggcgcccaca	ctctcctgag	agcgggtcact	gctacccacg	gcgcccacac	34440
2088	tctcctgaga	gcggtcactg	ctacccacgg	tgacccaca	ctctcctgag	agcgggtcact	34500
2090	gctacccacg	gcgcccacac	tctcctgaga	gcagtcactg	ctacccacgg	tgcgcccaca	34560
2092	ctctcctgag	agcgggtcact	gctacccacg	gcgcccacac	tctcctgaga	gcggtcactg	34620
2094	ctactcacag	cgcccacact	ctcctgagag	cggtcactgc	tacttacggg	gcgcccacac	34680
2096	tctcctgaga	gcggtcactg	ctacccacgg	tgcccacact	ctcctgagag	cgggtcactgc	34740
2098	tacttacggg	gcccacactc	tcttgagagc	gggtcactgt	atccacggcg	cccacaccct	34800
2100	cctgagagcg	gtcactgcta	cccacggcg	ccacactctc	ctgagagcgg	tactgtctac	34860
2102	tcacggcgcc	cacactctcc	tgagagcggg	cactgtctact	catgggtgcg	ccacactctc	34920
2104	ctgagagcgg	tcagtgtctac	ccatgggtgc	cacactctcc	tgagagcggg	cactgtctacc	34980
2106	catggcgccc	acactctcct	gagagcggtc	actgtctacc	acggcgccc	cactctcctg	35040
2108	agagcgggtca	ctgctactta	cgggtgcgcc	acactctcct	gagagcggtc	actgtctacc	35100
2110	acgggtgccca	cactctcctg	agagcgggtca	ctgctactta	cgggtgccca	actctcctga	35160
2112	gagcgggtcac	tgctatccac	ggcgcccaca	ccctcctgag	agcgggtcact	gctacccacg	35220
2114	gcgcccacac	tctcctgaga	gtggtcactg	ctacccacgg	cgcccacact	ctcctgagac	35280
2116	tgtgtctgagc	ttgtgtctgg	ttccatcgac	tgctgtctgc	cttccattgg	acccactgat	35340
2118	cgtgggtttgt	ctttggactt	ggtgatagta	tttcatgcag	aaatttttaag	tttttctgtt	35400
2120	gtcacaccaa	tcactttttc	ctgttatgcc	ataattttctg	ggttatctgt	ttttttatct	35460
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2126	attacaggcg	ctcgccacca	cgcccagcta	atgattatct	tttttagggc	aaggactcgc	35640
2128	tatgtggccc	aggctagtct	tgaactcctg	ggctcaagt	atcaccctgg	cccctcaaag	35700
2130	tgtgtggatt	acaggtgtga	gctacggcac	ccagactgtt	tttttaactct	ttgactatct	35760
2132	gctgagttac	acatgatctg	actctgtttg	catttgctgt	gatcagtggt	cttttcacac	35820
2134	atttacctga	aaagcctcgt	gtcacagcct	catttgagat	gagcgtgtct	gtgagcatgc	35880

RAW SEQUENCE LISTING

DATE: 05/18/2001

PATENT APPLICATION: US/09/830,706

TIME: 10:56:58

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2140	gcttgtgggtg	cagattttct	cagcttctag	tgtcttttaa	cttgtgtgat	gtacaaatgg	36060
2142	tttaagtttt	ttttaatgta	acttaaatct	tttacactta	gtggcctttt	gattttattgc	36120
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2146	tttccttatg	ggcgtccaca	agtcggattt	tcttttactt	ccttgggctg	gctgcacttc	36240
2148	ttctgcgggtg	tgggtggagat	gggttgcccg	ggccccagtg	cccatctcga	ggcactgttc	36300
2150	tcaactcggcg	tcctgagttc	tgccctgtgcc	tctgggtgtc	tttcacgtag	gcttctctgg	36360
2152	gtggagtctg	gatgcccttc	cagcccctgc	aggatgcttt	gtctgctgga	ccttcaggga	36420
2154	aatggccttg	gatgtctggc	agccccagga	tgtctgctgg	gcccctcgat	gtactggggg	36480
2156	cttcggtgac	ggtcactgca	gccccagcact	ttcaaccacc	togttgtgcc	tgttcccctc	36540
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2162	cagctggctc	ggccgggaag	acacagctcc	agatattttg	ttcagaaaag	aaactgcagt	36720
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2166	aggaatctag	gtatgttatt	gtttaaagaa	aaaagtgttt	gcaatgtatc	agtcacccgt	36840
2168	ttcatcttga	gcattgattta	tgtgaggaaa	tgtttttttt	aaaaattaag	ctggagatat	36900
2170	atccctgtac	gatgcttctg	tgaaaatgcy	ctttttgtcc	ggcgtgttta	atgcaagtgt	36960
2172	taacagtgtg	atatgggagt	cagtgtttac	atgttacatt	cctctgtctg	agtcaaaata	37020
2174	agcccggagg	gtctacagta	gcatttctgt	attttatcag	cttgggctgg	ggctgagggg	37080
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2178	ccccatgttt	attttaactc	gcctttaaaa	tggagctgaa	attaatatgg	accccggggc	37200
2180	tgcctccctg	gcccctgagt	gcctcccgta	tgcgggtggg	acatttctac	ctggtcccat	37260
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2186	cctcggtggtg	ctctgcggcg	tgcacgaggc	ctccctcgtc	cctctctact	acaggcacag	37440
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2190	gatctggcga	gtggtgcccc	cagtggggcc	tgggacccag	cctgcaaggt	cgtaccatgc	37560
2192	cacttttgcc	ccagagaggg	cactcaggga	tcacagtga	cctcggggcc	caagttggga	37620
2194	tcccccttcc	tcctttgttt	gcattccagg	cttagggagc	ccagggctgg	acagatggca	37680
2196	gaggcagggg	gatcgtgtcc	aagctcagtc	aaggggagac	agaattaaac	agtgcacttc	37740
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2202	aagcagtgtg	agcttgtggg	tgggtgagca	ggacccttga	gtgcactggg	gtggggcggg	37920
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2206	tcttggtggg	gaccttgagg	aggactccag	gtcggctcct	gtccgcctc	tgccatgcag	38040
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2228	ctaaccctaa	tatagggaat	tgtgtgtccct	ctattctagt	cctccctctt	gctgtgtctg	38700
2230	taggtccgct	ttctgcaaag	cagggctctg	agctggcaac	actgggatgg	ggccgagggc	38760
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RAW SEQUENCE LISTING

DATE: 05/18/2001

PATENT APPLICATION: US/09/830,706

TIME: 10:56:58

Input Set : A:\M3-007PCT_SEQ.txt

Output Set: N:\CRF3\05182001\I830706.raw

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2238	cccacacact	gggccctggg	ggaggggctg	cagccagcca	ggcctgtcca	ccctctgagg	39000
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2242	tttttataac	ttgggctggg	ttaaggctgc	ctgtcagtg	gtcatggaaa	gagcttttat	39120
2244	ttgacctta	ggaagtccgg	aagccagcca	ggtactgcga	tcatttttct	ctcttcctaa	39180
2246	gcacaagagg	gaagaagata	aattttatct	tgggaagaac	cacagccatt	tgggagaaaa	39240
2248	tttaatttaa	gtggcacatt	ccgctgggtg	gatgggatgt	ccttgtgttc	agcaataggg	39300
2250	agaccagctg	tcctcctggg	gcttgttacc	agactgcaaa	gcccctgcc	cctctctgtg	39360
2252	tgcgtccctg	tggctaagac	atgacaaggt	agggctttca	gtggcatttg	ttacagggcc	39420
2254	agcacacaga	ggctccggcc	cagcatctgc	ccctgagggg	ttgggtgggg	cggcggggtt	39480
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2258	gcactctgag	cttggcgggc	catctgggat	ttcctgggct	ggcaggacct	ccaagggggc	39600
2260	agggtgcctc	catgagactc	actttgtgtg	agtattccct	ctggagagca	ggccttcaag	39660
2262	ctcaagaggc	agatggattg	ctctttaagc	ctaggcttcg	tgggctgaa	ttaatgcttt	39720
2264	tgtttctgct	tcctccccc	attccaattt	tgaacaagaa	agcctgcctt	gtgattaggg	39780
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2278	tgcacacatg	acccaccgca	cccaacctct	gggtctttta	atgcagcggg	aagttgagtg	40200
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2282	tctgacttcc	tgtggccagt	catggcttga	gttgggtgct	gcaccacgtt	cctgtctgtc	40320
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DATE: 05/18/2001

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TIME: 10:56:58

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RAW SEQUENCE LISTING

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RAW SEQUENCE LISTING

DATE: 05/18/2001

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TIME: 10:56:58

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RAW SEQUENCE LISTING

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TIME: 10:56:58

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Output Set: N:\CRF3\05182001\I830706.raw

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3020	ctcactctac	ccagaaaagt	ttctcccagg	ggcctccgac	ctctgcttcc	acccccaccc	62460
3022	ccccaccac	cctgcacctc	gtcttcctgg	actgcccagg	gtttctccca	ggcgagagcc	62520
3024	ccccgcccc	cgccccccac	cacatcctga	taccatcct	cttccagctt	cttccaggct	62580
3026	caggcactca	cccttgagga	aaggggtttt	catcgagcaa	gcctgctttg	ggggtctgct	62640
3028	ctggcaggtg	gctgtggctc	cggggtggcc	tggagggatg	cgggggctct	gaagcctgcc	62700
3030	ggcccggtgt	agctggaagc	cttcggtgcg	gtttcatctt	gctgccgctg	cagcttgca	62760
3032	gcacccagag	aaaccggagc	ctgcagcctg	ggcgggtggg	cctgcggcct	ttggggatga	62820
3034	gacactgggc	tccagggtct	gccccctccc	cctgcacccc	agaactctcc	atcaacagga	62880
3036	cgggcctgac	agggcacctt	tccccgaggc	actttatttg	ctatttttgt	ttgattcatc	62940
3038	acaagtgtgc	ggggacatat	gttcctggca	ttttataatg	ttgttttatg	tttcacaatg	63000
3040	ttgaatggcc	aaatactctg	tttgttttct	tttcaattct	gttttagtta	gaacaatatt	63060
3042	ctctgaagtt	ccattaattt	ataatggctg	tacagcatat	gtgagggccc	cactcatttt	63120
3044	ttacttggtc	gcagcccggt	acacgtgtgc	gagcccttca	ggggtgctga	aagcctttgt	63180
3046	ccaacagctc	cggctccggt	gtggccacag	cggccttgct	ccagtgaagg	ccaagcaaac	63240
3048	accagggtgc	ctgagggtgc	ccagggtggc	tcctgtctac	ccattcttgc	ctccaccatt	63300
3050	tggtgtgggt	gagctacgtc	caccaggtt	tgtgtgcct	ggcctggctg	cttggttgc	63360
3052	ctgatgcctg	ctctgctgct	gtggtttacg	ggggtccag	gcctgggtgg	gacagggtct	63420
3054	gtcctgcaga	gcattggctc	agccactggc	tgctgtcacg	tgagagggcc	tgacacaccc	63480
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3058	tcctgcccgc	catgacctg	ccttgcctat	gcagcctgtg	ggagctgcag	gtgccacgag	63600
3060	gtttgtttgt	cgcagcactg	atccagggtt	ggtatcctgt	cctcaggtct	atcacgccc	63660
3062	ttataaacca	ctggagtcca	cgggtggctg	acgagatgca	tcccagtgtt	atgtaaaggt	63720
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3068	gggtggacgc	aaccagccc	cctcctgggc	tggtggctga	gatgtgcggc	tttcagatgg	63900
3070	tgtgcctgag	ggagcccca	cagctggtgc	tgggcctgca	tttccttggc	cccaacgcag	63960
3072	gcgaagttac	tcaaggattt	gctctgggga	tcaagtaagt	cccaggaat	gcaggtgcg	64020
3074	atgcgatgtg	cagctgggta	tcctcagagt	gccggcagtc	ctacagtgga	gagctgctgc	64080
3076	cactcttgcc	gcatttatgt	ggccttcgtg	ggtttgcagc	agagattcct	caggccctc	64140
3078	agacagggcg	ggttttaggg	ggacaagagg	cgggttctgc	ccagccagac	gctgttgagc	64200
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3086	ttcggggctc	cgggggtcaaa	ggaagccatg	gcaaaggctc	tggttggtgt	gacaggggta	64440
3088	gttgaggtt	gggacattgt	gcattggcctg	agagaggtgg	ctggctggtg	gtggggcctg	64500
3090	ggaggtggtg	gtgtggtgag	gccaggatgc	gctgtctgtg	ggtaaagcag	agagcagagg	64560
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3094	agccagggcg	tggttggtgtg	ggaggtgggc	tgagcagca	ctaggcatct	gctgggaggg	64680
3096	aggtggtggt	cacccacggg	tgtgggcagg	ggtcctggct	gctggctggg	ggtcagggga	64740
3098	cagtgaaggag	accagcagcc	tctgaggccc	tcctcttccc	gggggtggga	tgctgtggac	64800
3100	ccccctccct	gtgctgaccc	cgctgcctc	ccccatcccc	catgtgcagg	tggtgggctt	64860
3102	cctatgcgca	ggtgatgcgg	accgtgggta	tccatccac	atgctctgag	gaggtagtca	64920
3104	agctgcgcac	ctccacgcgc	tcaggccttg	acccacgggt	gacaggctgc	tgagggttaag	64980
3106	cgccatccct	gcaggccagg	gcacacgggt	cgcccgccgc	cagctcctcg	gaggccagac	65040
3108	ccaggtatgc	aggtggggt	ggctctgttt	gaggacaggg	catgtggcag	gggtgcagga	65100
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3112	atgggtgctc	catctgttaa	ccaggccaca	gcggtgacag	gcagaagggg	aagttccacg	65220
3114	gggcccacaa	ctccccggg	gacccagac	ccggcctgg	ccacagctgc	tccccacaca	65280

RAW SEQUENCE LISTING

DATE: 05/18/2001

PATENT APPLICATION: US/09/830,706

TIME: 10:56:58

Input Set : A:\M3-007PCT_SEQ.txt

Output Set: N:\CRF3\05182001\I830706.raw

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3116 caggagggtat caagaaacgg ggctcatcct tagcagccta tcccagggtg atgttggcgt 65340
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3120 cagtcgggaa gctggcctcc caccgaggcc tcccaccaag gcctggctcc tgcagagttc 65460
3122 agcgcccgct catttcccta tctcccagaa ggtggagacg ctgccctgtg atggccggcc 65520
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VERIFICATION SUMMARY

DATE: 05/18/2001

PATENT APPLICATION: US/09/830,706

TIME: 10:56:59

Input Set : A:\M3-007PCT_SEQ.txt

Output Set: N:\CRF3\05182001\I830706.raw

L:12 M:270 C: Current Application Number differs, Replaced Application Number
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:170 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:291 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2
L:291 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:2
L:291 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:2
L:291 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:433 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:548 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:4
L:548 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:4
L:548 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:4
L:548 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:549 M:252 E: No. of Seq. differs, <211>LENGTH:Input:492 Found:494 SEQ:4
L:1986 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:37